

CLAIMS

1. A fixing apparatus comprising:
 - a magnetic field generation section that generates
 - 5 a magnetic field;
 - a magnetic field absorption section that is located opposite said magnetic field generation section and absorbs the magnetic field generated by said magnetic field generation section; and
- 10 a heat-producing rotating element that is gripped and rotated by a pair of pressure members so as to pass between said magnetic field absorption section and said magnetic field generation section and is induction-heated by a magnetic field generated by said magnetic field
- 15 generation section and allows passage of magnetic field energy,
 - wherein said heat-producing rotating element is made of a nonmagnetic metallic material of thickness in a range from 10 μm to 500 μm and specific resistance of 80×10^{-6} Ωcm or less.
2. The fixing apparatus according to claim 1, wherein said heat-producing rotating element has a conductive layer on a surface.
- 25 3. The fixing apparatus according to claim 2, wherein said conductive layer is made of a metallic material with

specific resistance of 10×10^{-6} Ωcm or less.

4. The fixing apparatus according to claim 1, wherein said magnetic field generation section comprises:

5 an exciting coil; and

an exciting circuit having a high-frequency power supply that supplies predetermined power to said exciting coil, and

wherein a frequency of said high-frequency power
10 supply is in a range from 20 kHz to 100 kHz.

5. The fixing apparatus according to claim 1, wherein said heat-producing rotating element has magnetic field energy permeability of 89% or more.

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6. An image forming apparatus comprising the fixing apparatus according to claim 1.